

EFFICACY STUDY REVIEW

by Kevin J. Sweeney, Entomologist - IB

Kevin J. Sweeney
9/2/03

To: William Sproat

Date: September 2, 2003

EPA Reg. or File No.: 499-LNE

Product Name: TC-241

Registrant: Whitmire-Micro-Gen

PM: George LaRocca, PM13

Action: 165

Submission No. S630415

DP: D288810

Chemical: 0.05 % lambda-cyhalothrin

Use pattern: indoor and outdoor residential and crack and crevice food handling establishments/areas.

Studies Submitted:

MRID 45862901 Evaluation of Residues of Lambda-cyhalothrin to D-Force HPX in the Control of the German Cockroach, American Cockroach, Argentine Ant, Confused Flour Beetle, Indian Meal Moth Larvae, and Field Cricket by BioResearch, Inc.

This study examined the residual effects of the subject product formulation and compared its performance to positive and negative control treatments for the tested pests. These tests were conducted with aged tile and wood panels for up to 28 days post-treatment. Mortality was assessed.

MRID 45862902 Evaluation of Experimental Formulation 215-006, Compared to D-Force HPX, in the Control of German Cockroach, American Cockroach, Argentine Ant, Confused Flour Beetle, Indian Meal Moth Adult, Indian Meal Moth Larvae, Paper Wasp, Western Yellow Jacket, Honey Bee, House Fly, Stable Fly, Bed Bug, European Earwig, Silverfish, and Field Cricket by BioResearch, Inc.

This study examined the knockdown and immediate kill effects of the subject product and compared its performance to positive and negative control treatments for the tested pests.

Entomologist's Recommendations:

1. The submitted studies are acceptable and comply with the product performance requirements for the subject pests in accordance with OPPTS Guideline 810.3500.
2. The subject product provided quick knockdown against the tested pests based on direct spray of the aerosol.
3. The tolerance for food handling establishments states that the active ingredient can only be reapplied at an interval equal to or greater than 21 days. The residual testing data for this product shows that the product will be efficacious as a residual treatment if applied every 21-28 days. The product performs better on non-porous surfaces when compared to porous surfaces (wood). (Note: 1g was applied to tile and 3g to wood).
4. The re-application interval for Food Handling Establishments is stated only under the directions on the supplemental label. Shouldn't it appear under the General Use Restrictions on the front panel? *Yes*